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A - [001] 014 03- 034 06- 074 075 076 077 09- 13- 230 231 24- 27& 28& 316
332 359 398 427 431 445 473 477 57& 582 59& 62& 726

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DR - 1544-U 1694-U 1966-U

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KS - 0044 0229 0411 0412 0418 0419 2001 2020 2198 2202 2318 2378 2427 2440
2493 2507 2729 2847 3003 3152 3173 3267 3317

MC - A04-F04 A10-E A11-B05D A11-C02 A12-W05 J04-A06 L02-A03 L02-J02B

PA - (NIPP) NIPPON INST BIOLOGICAL SCIENCE

PN - JP5015772 A 19930126 DW199309 B01J13/14 003pp

PR - JP19910198422 19910712

XA - C1993-031011

XIC - B01J-013/14

AB - J05015772 Prodn. comprises preparing an emulsion by adding inorganic fine particles (core material) to an organic solvent soln. of copolymer of (meth)acrylic acid and vinyl monomer which is capable of copolymerising with the (meth)acrylic acid; neutralising the (meth)acrylic acid portion; and crosslinking the neutralised copolymer to form microcapsules of crosslinked neutralised copolymer contg. inorganic fine particles as the core material.

- USE/ADVANTAGE - Titanium oxide, silica and alumina are economically encapsulated by the method.

- In an example, Aron S-1045 (acrylic copolymer or TOAGOSEI CHEMICAL INDUSTRY CO.) (2 wt.%) was added to toluene to prepare a 200g soln., Emulgen 109P (surfactant of Kao Corp.) (35g) was further added to form organic solvent of copolymer. Glass frit (100g) was dispersed into the soln. to form emulsion after neutralising the acrylic acid portion in Aron S-1045 by adding 4% NaOH soln. and 1% NaCl aq. soln. 100g was instantaneously added to crosslink the neutralised copolymer in the emulsion to form microcapsule contg. glass frit. The dried microcapsule had Aron S-1045 neutralised crosslinked fil(Dwg.0/0)

AW - METHACRYLIC]

AKW - METHACRYLIC]

IW - MICROCAPSULE PRODUCE ENCAPSULATE SILICA ALUMINA ADD INORGANIC FINE PARTICLE SOLUTION POLYVINYL METHO POLYACRYLIC ACID COPOLYMER
NEUTRALISE ACID PORTION CROSSLINK

IKW - MICROCAPSULE PRODUCE ENCAPSULATE SILICA ALUMINA ADD INORGANIC FINE PARTICLE SOLUTION POLYVINYL METHO POLYACRYLIC ACID COPOLYMER
NEUTRALISE ACID PORTION CROSSLINK

NC - 001

OPD - 1991-07-12

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PAW - (NIPP) NIPPON INST BIOLOGICAL SCIENCE

TI - Microcapsule prodn., used for encapsulation of silica, alumina, etc. -
by adding inorganic fine particles to soln. of vinyl]-(meth)acrylic]
acid copolymer, neutralising acid portion, crosslinking, etc.

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